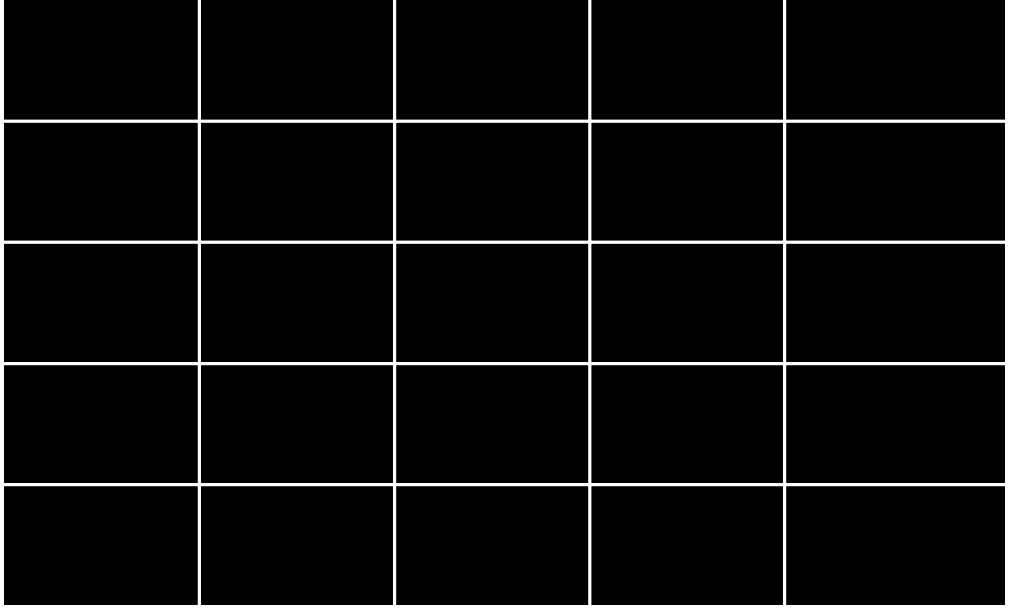

SHINDAIWA GRASS TRIMMER TO BLADE CONVERSION INSTRUCTIONS

Model 89291B For Trimmer T242

WARNING!

Minimize the risk of injury to yourself and others! Read the Owner's/Operator's manual originally supplied with the unit that is being upgraded and familiarize yourself with the contents. Always wear eye and hearing protection when operating your unit.

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shindaiwa®

Introduction

These are instructions to convert a grass trimmer to a blade capable unit. This is not an Owner's/Operator's manual. Information on how to operate and maintain the unit can be found in the Owner's/Operator's manual for the unit you are converting. Note this kit is supplied with a cutting attachment shield that has been redesigned to provide better visibility and a larger cutting swath when used as a grass trimmer.

IMPORTANT!

If the cutting attachment shield has been removed from your unit or the unit was manufactured prior to October 2001, an additional clamp kit will be required to complete this installation. The clamp kit required is Shindaiwa part number 80293.

IMPORTANT!

The information contained in these instructions describes the product available at the time of publication.

Echo, Inc. reserves the right to make changes to products without prior notice, and without obligation to make alterations to units previously manufactured.

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Attention Statements

Throughout this manual are special “attention statements”.

WARNING!

A statement preceded by the triangular attention symbol and the word “WARNING” contains information that should be acted upon to prevent serious bodily injury.

CAUTION!

A statement preceded by the word “CAUTION” contains information that should be acted upon to prevent mechanical damage.

IMPORTANT!

A statement preceded by the word “IMPORTANT” is one that possesses special significance.

NOTE:

A statement preceded by the word “NOTE” contains information that is handy to know and may make your job easier.

IMPORTANT!

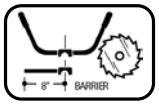
The instructions described in this manual are intended to help you get the most from your Shindaiwa power tool as well as to protect you and others from harm. These procedures are guidelines for safe operation under most conditions, and are not intended to replace any safety rules and/or laws that may be in force in your area. If you have questions regarding your Shindaiwa power tool, or if you do not understand something in these instructions, your Shindaiwa dealer will be glad to assist you. You may also contact Shindaiwa at the address printed on the back of this instructional manual.

Read and follow this operators manual. Failure to do so could result in serious injury.

Wear eye and hearing protection at all times during the operation of this unit.

Keep bystanders at least 50 feet (15 m) away during operation.

Beware of thrown or ricocheted objects.

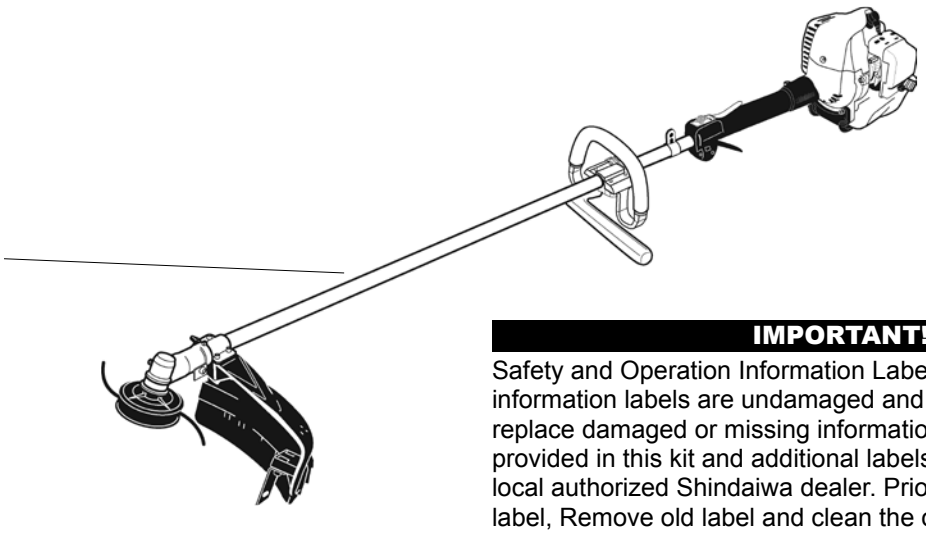


Do not operate this unit with a blade unless the unit is equipped with a Shindaiwa-approved handlebar or barrier.

Always wear a harness when operating this unit with a blade. A harness is also recommended when using trimmer line.

If unit is used as a brushcutter, beware of blade thrust. A jammed blade can cause the unit to jerk suddenly and may cause the operator to lose control of the unit.

Safety Labels



IMPORTANT!

Safety and Operation Information Labels: Make sure all information labels are undamaged and readable. Immediately replace damaged or missing information labels. A new label is provided in this kit and additional labels are available from your local authorized Shindaiwa dealer. Prior to installing the new label, Remove old label and clean the outer tube with rubbing alcohol or similar cleaner.

General Safety Instructions

WARNING!

- When operating with a blade, make sure the handle is positioned to provide you with maximum protection from contacting the blade. Always make sure the barrier bar is installed in accordance with instructions.
- **NEVER** use a cracked or warped blade: If a properly installed blade vibrates, replace it with a new one and re-check.
- **ALWAYS** Shut off the engine immediately if a blade binds in a cut. Push the branch or tree to ease the bind and free the blade.
- Beware of a coasting blade when brushcutting or edging. A coasting blade can injure while it continues to spin after the throttle trigger is released or after the engine is stopped.
- Install the blade so its printed surface is visible to the operator when the brushcutter is in the normal operating position.
- The blade must fit flat against the holder flange. The blade mounting hole must be centered over the raised boss on blade Holder.
- Holder must fit flush against the blade and the splines engaged to the output shaft.
- Do not attach any blade to a unit without proper installation of all required parts. Failure to use the proper parts can cause the blade to fly off and seriously injure the operator and/or bystanders.

Using A Brushcutter Blade

WARNING!

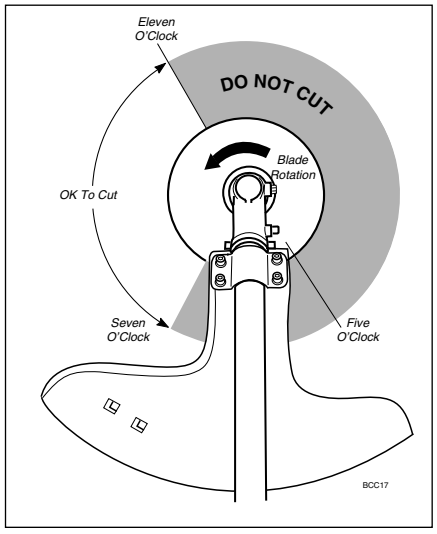
- Before working with a blade-equipped unit, always inspect and clear the area of objects that could interfere with or damage the blade.
- Never use a blade near sidewalks, fence posts, buildings or other objects that could cause injury or damage.
- Never use a blade for purposes other than those for which it was designed.
- Whenever you strike a hard object with a blade, always stop the brushcutter and carefully inspect the blade for damage. NEVER OPERATE THE UNIT WITH A DAMAGED BLADE!
- A blade-equipped unit **must** be equipped with a bicycle-type handlebar or barrier bar as well as a harness or strap.
- Always make sure the cutting attachment shield is properly installed before operating the unit.

Blade Thrust
'Blade thrust' is a sudden sideways or backward motion of the brushcutter. Such motion may occur when the blade jams or catches on an object such as a sapling tree or tree stump. BE CONSTANTLY ALERT FOR BLADE THRUST AND GUARD AGAINST ITS EFFECTS!

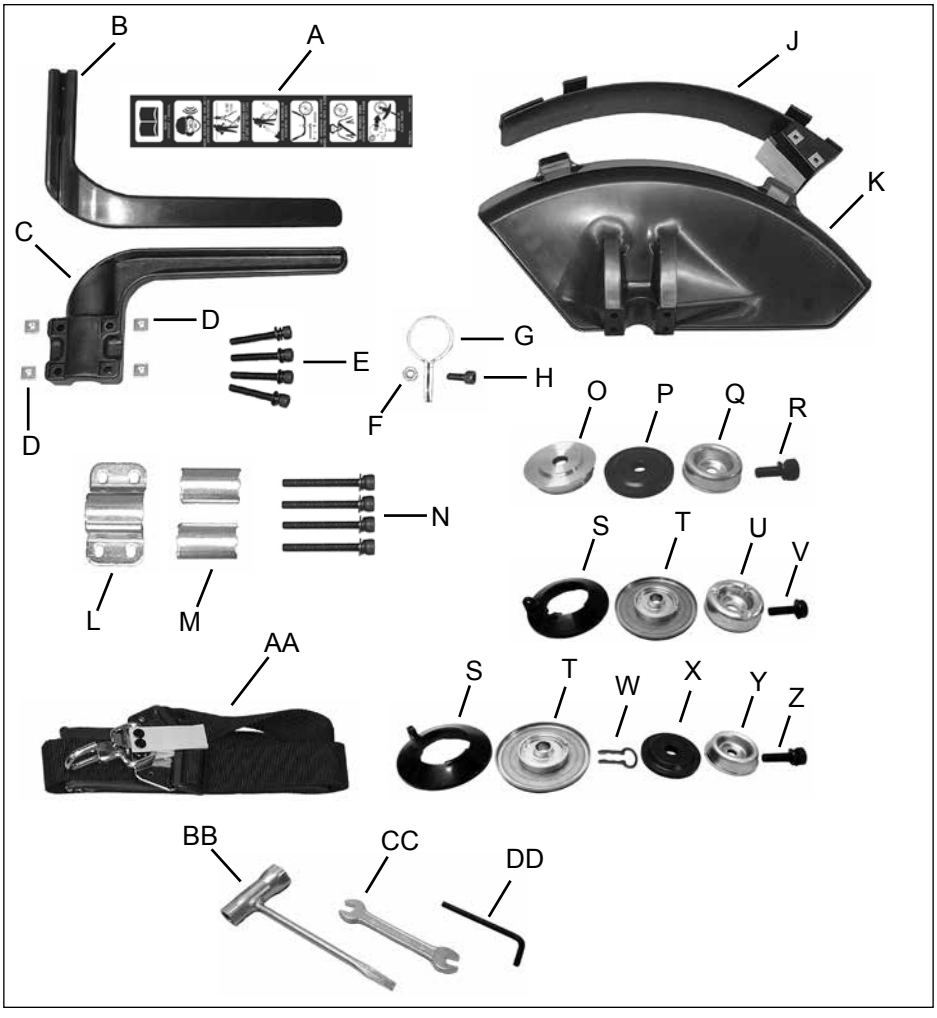
Barrier Bar
A brushcutter's barrier bar helps prevent the operator from moving forward, or the unit moving rearward, thus preventing inadvertent bodily contact with the blade. ALWAYS KEEP THE BARRIER BAR SECURELY IN PLACE ON THE UNIT!

Shoulder Strap or Harness
A shoulder strap or harness provides additional protection against blade thrust. In addition, a shoulder strap or harness gives significant support and comfort to help ensure safe and efficient operation.
When operating a unit equipped with a blade, make sure both the handle/barrier bar and shoulder strap or harness are adjusted to the size of the operator using the unit.

The blade rotates counter-clockwise. For best performance and to minimize being struck by debris, move the blade from right to left while advancing on your work. Position the blade so cuts are made between the blade's 7 o'clock and 11 o'clock positions (as viewed from above). DO NOT cut between the 11 o'clock and 5 o'clock positions (shaded area).



Kit Contents

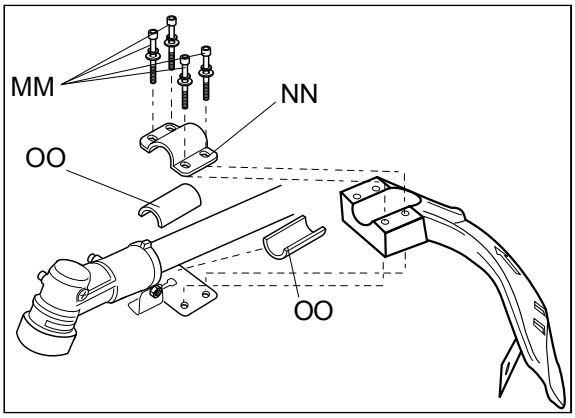


Item	Description	Qty
A	Warning Label	1
B	Barrier Bar – 1 Hole	1
C	Barrier Bar – 4 Hole	1
D	Nut M5	4
E	Bolt M5x35 mm, SPW	4
F	Nut M5	1
G	Hanger	1
H	Bolt M5x12 mm HSH	1
J	Debris Shield Extension	1
K	Debris Shield	1
L	Upper Clamp	1
M	Spacer	2
N	Bolt M5x45 mm, SPW	4
O	Upper Blade Fixture	1
P	Lower Blade Holder	1
Q	Bolt Guard	1
R	Bolt M7x20 mm, SW	1
S	Gear Case Cover	1
T	Upper Blade Fixture	1
U	Holder/Bolt Guard	1
V	Bolt M7x24 mm	1
W	Retainer Clip	1
X	Lower Blade Holder	1
Y	Bolt Guard	1
Z	M7 X 26mm Bolt	1
AA	Shoulder Strap	1
BB	Wrench/Screwdriver	1
CC	Wrench	1
DD	Hex Wrench	1

Assembly

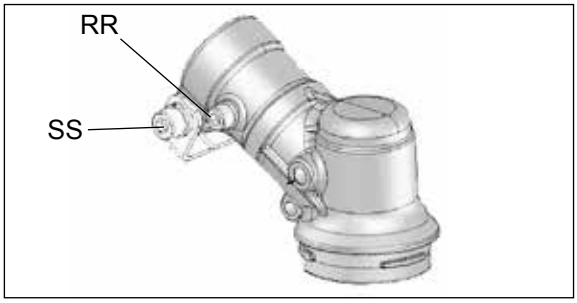
Removing the Existing Cutting Attachment Shield

1. Remove the four bolts (MM), bracket (NN), and two shims (OO).
2. Remove the cutting attachment shield from the gearcase.



Remove Gear Case

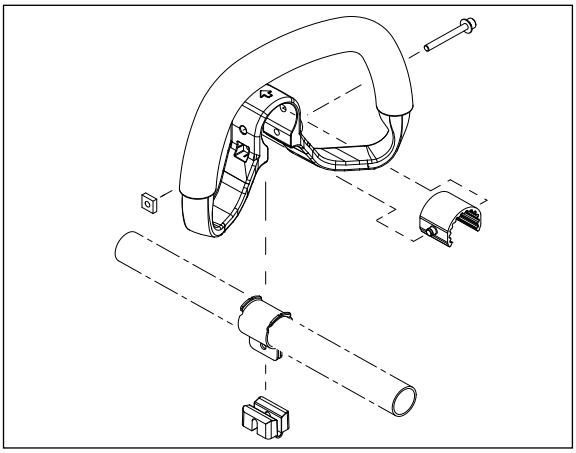
1. Remove gear case locating screw (RR) and loosen gear case clamp (SS).
2. Remove gear case from outer tube. Retain all parts for future use.



Remove Handle Assembly

T242 with 1-screw Handle

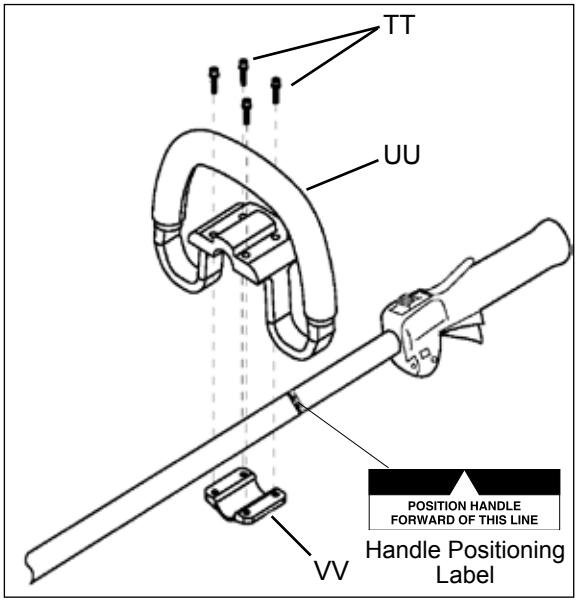
1. Remove handle assembly. Retain all parts for future use.



Remove Handle Assembly

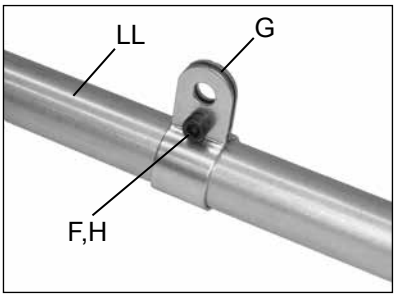
T242 with 4-screw Handle

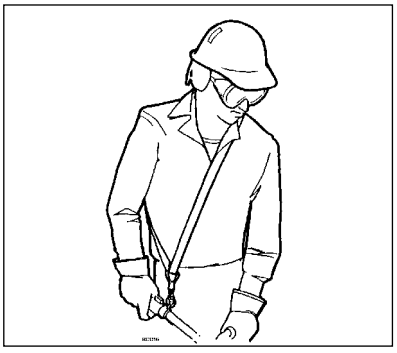
1. Remove the four bolts (TT) on the handle (UU) and remove the handle and mounting bracket (VV).



Install Shoulder Strap

1. Position the hanger (G) on the outer tube (LL) between the handle and throttle assembly and loosely secure the hanger with the nut (F) and bolt (H).
2. Adjust the shoulder strap so the shoulder pad rests comfortably on the left shoulder and the cutting path of the cutting attachment is parallel to the ground. Tighten hanger bolt (H).

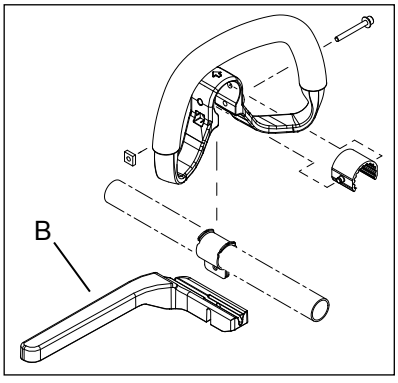




Install Handle and Barrier Bar

T242 with 1-screw Handle

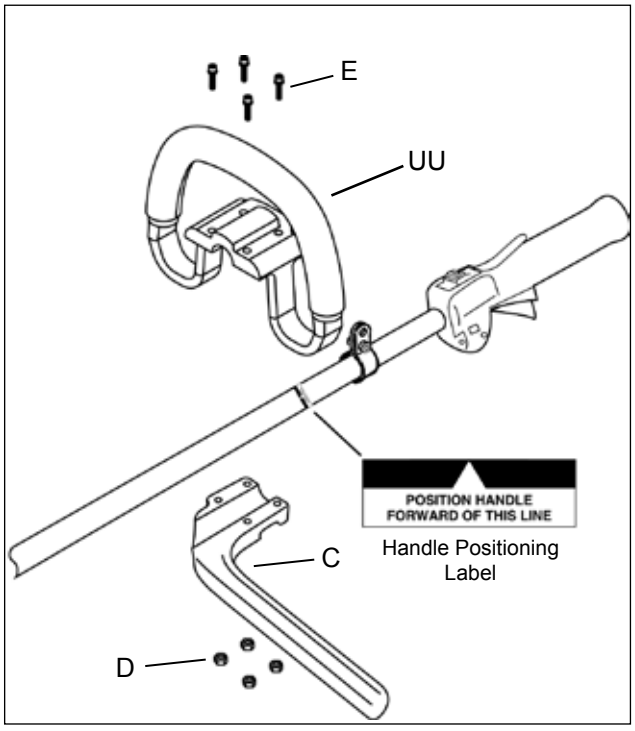
1. Install Handle and Barrier Bar (B).
2. Adjust handle position for comfortable operation, and tighten screw securely.



Install Handle and Barrier Bar

T242 with 4-screw Handle

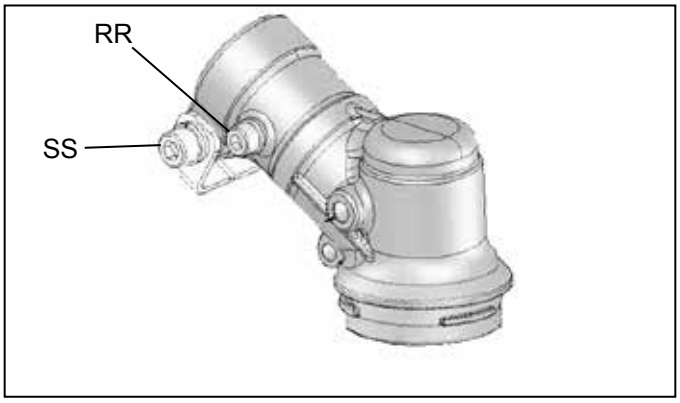
1. Install Handle (UU) and Barrier Bar (C).
2. Adjust handle position for comfortable operation, and tighten screws securely.



Handle Positioning Label

Install Gear Case

1. Install gear case onto outer tube. Align locating hole on gear case with locating hole in tube.
2. Install locating bolt (RR) and tighten clamp bolt (SS).



Install Debris Shield

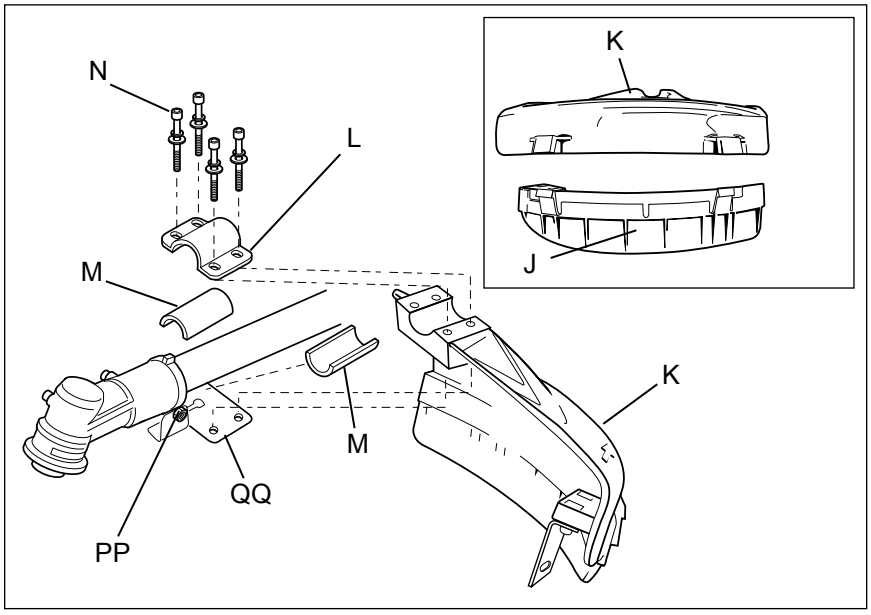
Assemble the Cutting Attachment Shield to the Outer Tube.

1. Insert the cutting attachment shield (K) between the outer tube and the cutting attachment mounting plate (QQ).
2. Fit the two shims (M) and the upper clamp (L) over the outer tube and install the four socket-head cap screws (N) finger tight.

CAUTION!

Make sure the clamp screw and retaining nut (PP) are securely tightened before tightening the four socket head screws**.**

3. Tighten the four socket-head cap screws to secure the cutting attachment shield.



WARNING!

NEVER operate the unit without the cutting attachment shield installed and tightly secured!

WARNING!

A cutting attachment shield or other protective device is no guarantee of protection against ricochet. YOU MUST ALWAYS GUARD AGAINST FLYING DEBRIS!

Sub-Shield.

(when trimmer head is in use)

1. Attach the sub-shield (J) extension to the cutting attachment shield (K).

WARNING!

NEVER use this machine without sub-shield when using a trimmer head.

CAUTION!

Make sure the sub-shield is completely hooked at the hook receiver.

Install Brushcutter Blade

NOTE:

There are four gear case configurations. Select one of the following instructions to properly install a metal blade.

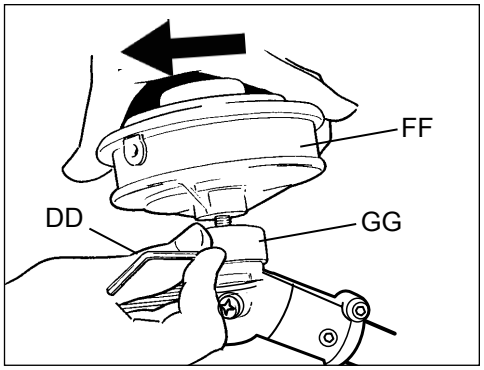
Gear Case #1 with notched flange:

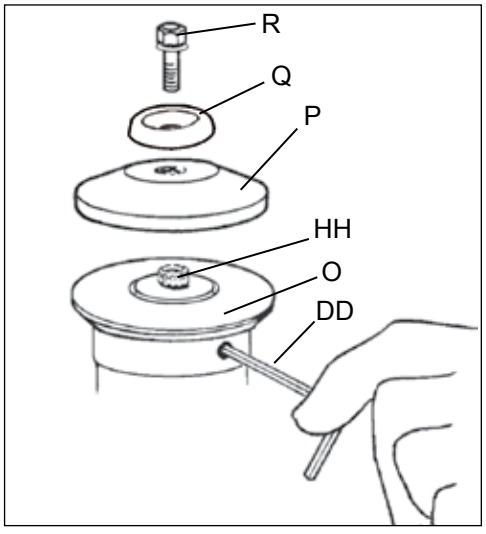
1. Turn the unit over so that the gear case output shaft faces UP.
2. Align the hole in the holder (GG) with the notch in the gearcase flange, and then temporarily lock the output shaft by inserting a hex wrench (DD) through both holes.
3. While holding the hex wrench, turn the trimmer head (FF) clockwise to remove. Remove the hex wrench.
4. Remove trimmer head holder.
5. Install large upper blade holder (O) onto output shaft (HH).
6. Align the hole in the upper blade holder with the matching notch in the gear case flange, and then temporarily lock the output shaft by inserting a hex wrench through both holes. Hold hex wrench in place until blade retaining bolt is tightened.
7. Fit the blade (EE) over the flange on holder (O).
8. Install large lower blade holder (P) on the output shaft.
9. Install the bolt guard (Q) and then the 7x20 mm blade retaining bolt with lockwasher (R). Using the combination spark plug wrench/screwdriver (BB), tighten the bolt firmly in a counter-clockwise direction.
10. Remove hex wrench.

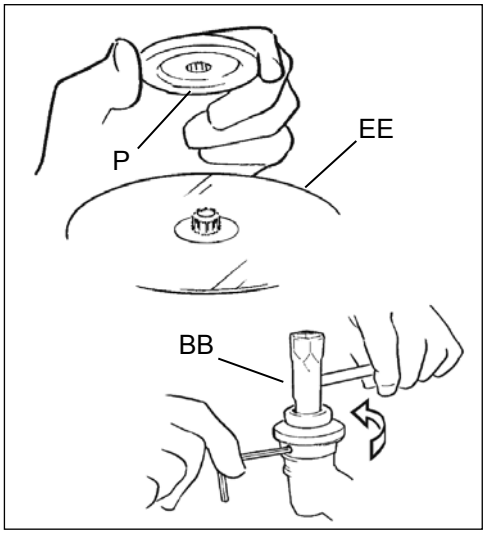
The unit should now be completely assembled and ready for use with a blade.

IMPORTANT!

Units with adjustable carburetors must be readjusted for blade use, otherwise serious engine damage can occur.







Install Brushcutter Blade

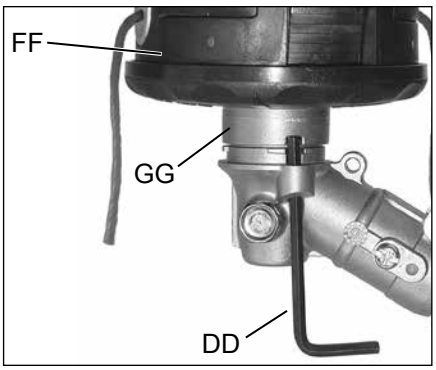
Gear Case #2 with side-mounted locking tool hole:

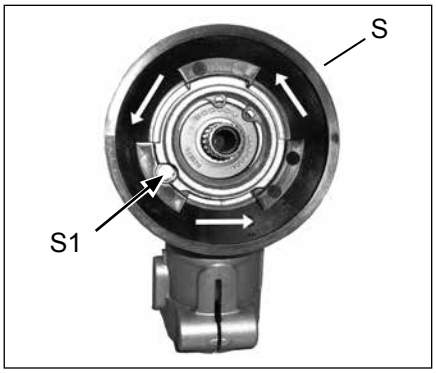
1. Turn the unit over so that the gear case output shaft faces UP.
2. Align the notch in trimmer head holder (GG) with the notch in the gear case flange. Lock the holder and output shaft by inserting a hex wrench (DD) through the locking hole in the gear case and into the aligned notches.
3. While holding the hex wrench turn the trimmer head (FF) clockwise to remove.
4. Remove the hex wrench.
5. Remove trimmer head holder.
6. Align tabs on gear case cover (S) with slots in retaining lip on gear case. NOTE: Position cover to align locking holes (S1) when cover is rotated counterclockwise. Secure cover to gear case with (1) M5 x 12 mm bolt w/ lock washer and flat washer (KK).
7. Place upper blade fixture (T) on splined power output shaft. Blade fixture must engage splines and fit over outside edge of gear case cover.
8. Place blade (EE) over mounting arbor on blade fixture (T).
9. Install blade holder/bolt guard (U) on the output shaft (HH).
10. Install the 7x24 mm blade retaining bolt with flat washer (V). Using the combination spark plug wrench/screwdriver (BB), tighten the bolt firmly in a counterclockwise direction.
11. Remove hex wrench.

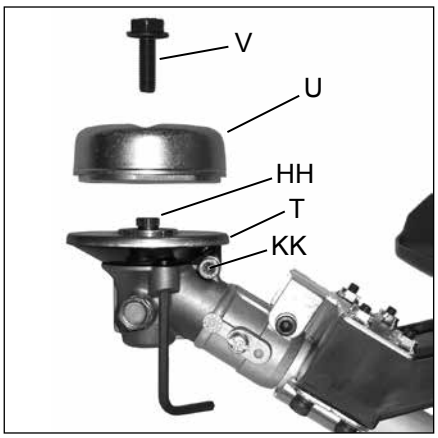
The unit should now be completely assembled and ready for use with a blade.

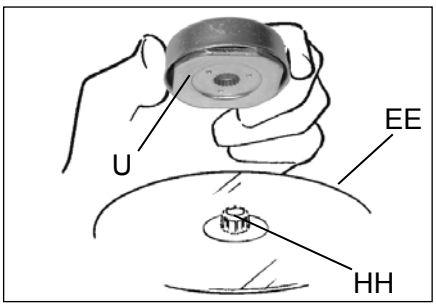
IMPORTANT!

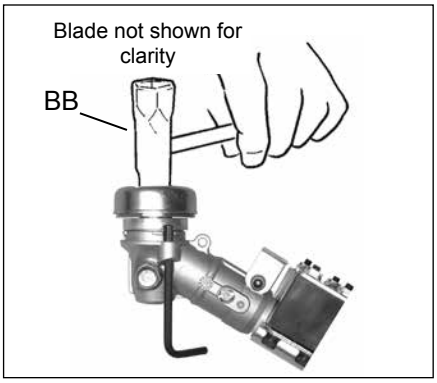
Units with adjustable carburetors must be readjusted for blade use, otherwise serious engine damage can occur.











Install Brushcutter Blade

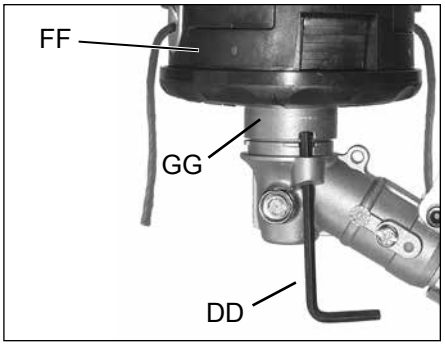
Gear Case #3 with side-mounted locking tool hole and grooved output shaft:

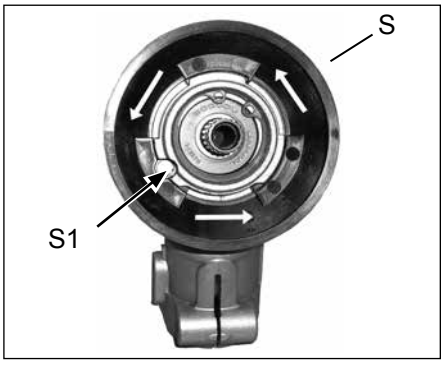
1. Turn the unit over so that the gear case output shaft faces UP.
2. Align the notch in trimmer head holder (GG) with the notch in the gear case flange. Lock the holder and output shaft by inserting a hex wrench (DD) through the locking hole in the gear case and into the aligned notches.
3. While holding the hex wrench turn the trimmer head (FF) clockwise to remove.
4. Remove the hex wrench.
5. Remove trimmer head holder.
6. Align tabs on gear case cover (S) with slots in retaining lip on gear case. NOTE: Position cover to align locking holes (S1) when cover is rotated counterclockwise. Secure cover to gear case with (1) M5 x 12 mm bolt w/ lock washer and flat washer (KK).
7. Place upper blade fixture (T) on splined power output shaft. Blade fixture must engage splines and fit over outside edge of gear case cover.
8. Place blade (EE) over mounting arbor on blade fixture (T). Install clip (W) in shaft groove to retain blade. Place lower blade holder (X) on output shaft (HH), covering clip. Holder must fit flat against blade and completely cover clip.
9. Install bolt guard (Y) on the output shaft.
10. Install the 7x26 mm blade retaining bolt with flat washer (Z). Using the combination spark plug wrench/screwdriver, tighten the bolt firmly in a counterclockwise direction.
11. Remove hex wrench.

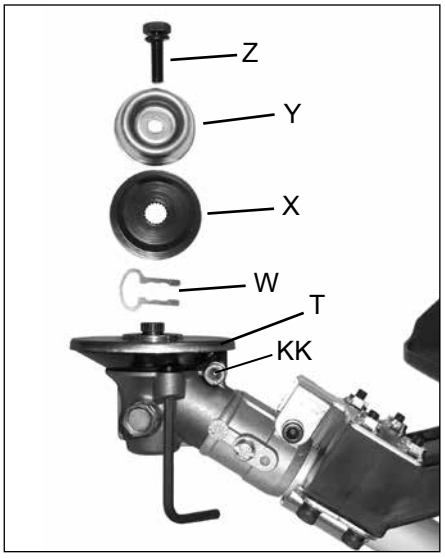
The unit should now be completely assembled and ready for use with a blade.

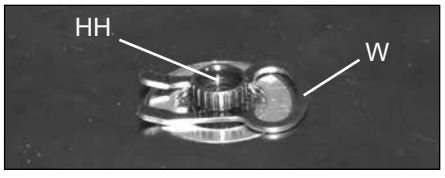
IMPORTANT!

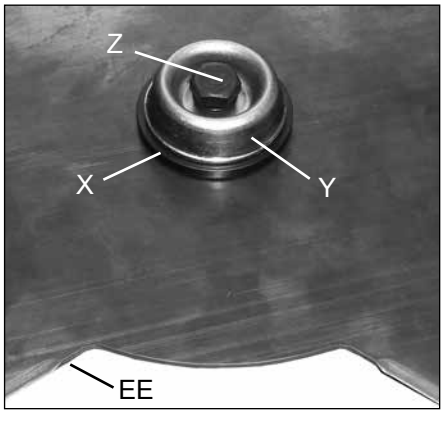
Units with adjustable carburetors must be readjusted for blade use, otherwise serious engine damage can occur.











Install Brushcutter Blade

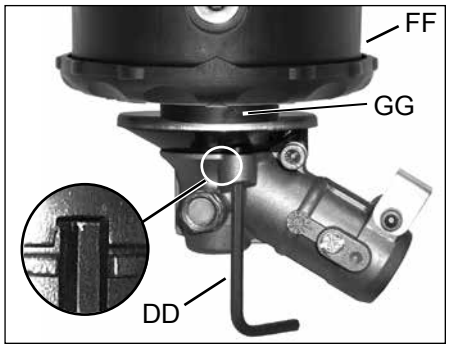
Gear Case #4 with side-mounted locking tool hole, grooved output shaft, and gear case cover:

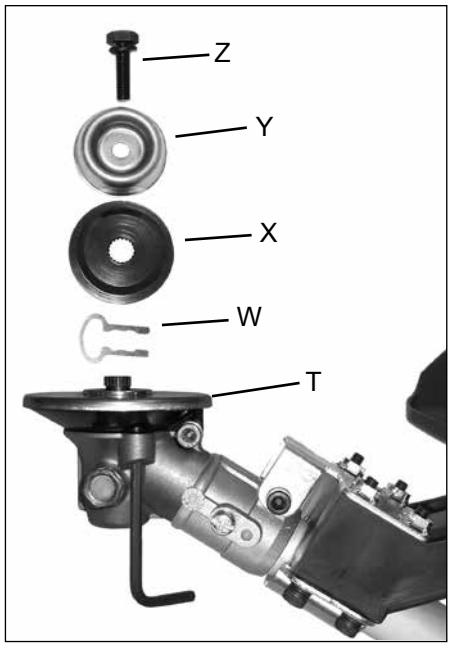
1. Turn the unit over so that the gear case output shaft faces UP.
2. Lock gear case by inserting a 4mm hex wrench (DD) into locking hole. Apply light pushing force to wrench while turning splined power output shaft. Continue turning until wrench engages locking notch on underside of blade fixture (T). Hold wrench securely to prevent output shaft from turning.
3. Turn trimmer head (FF) clockwise to remove.
4. Remove spacer (GG). Remove wrench.
5. Place blade (EE) over mounting arbor on upper blade fixture (T). Install clip (W) in shaft groove to retain blade. Place lower blade holder (X) on output shaft (HH), covering clip. Holder must fit flat against blade and completely cover clip.
6. Install bolt guard (Y) on the output shaft.
7. Install the 7x26 mm blade retaining bolt with flat washer (Z). Using the combination spark plug wrench/screwdriver, tighten the bolt firmly in a counterclockwise direction.
8. Remove hex wrench.

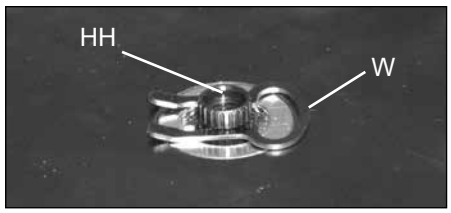
The unit should now be completely assembled and ready for use with a blade.

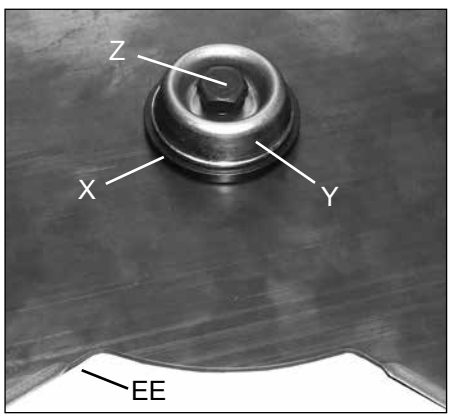
IMPORTANT!

Units with adjustable carburetors must be readjusted for blade use, otherwise serious engine damage can occur.









Consumer Product Support

If you require assistance or have questions concerning the application, operation or maintenance of this product you may call the Shindaiwa Consumer Product Support Department at 1-877-986-7783 from 8:30 am to 4:30 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

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